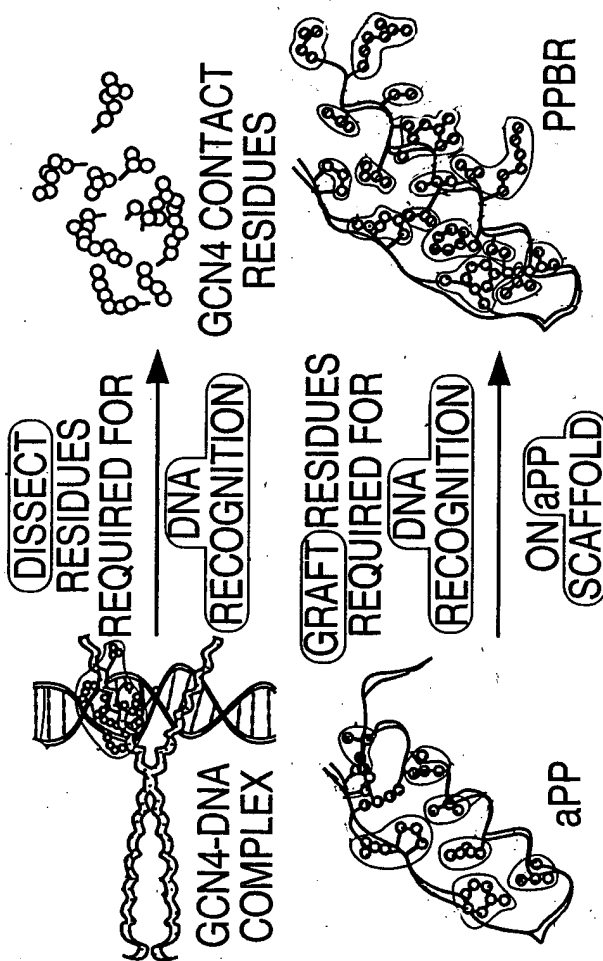


FIG. 1

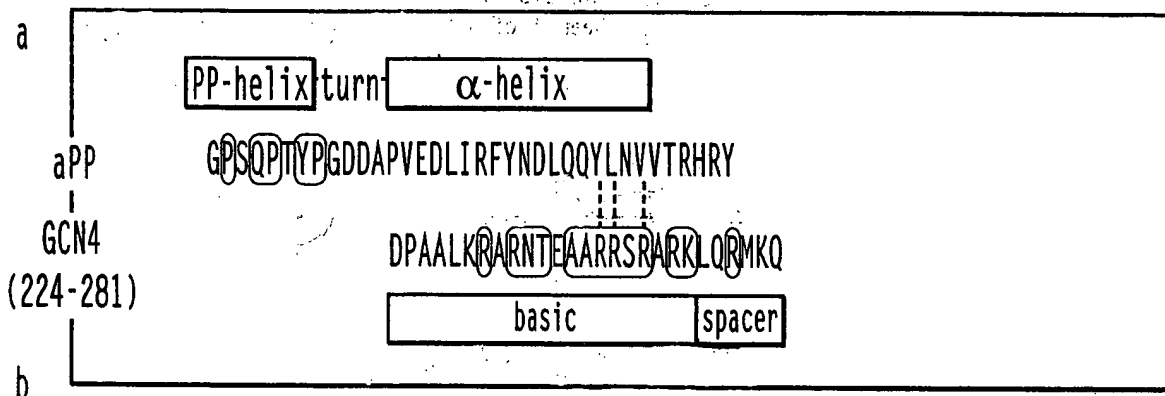


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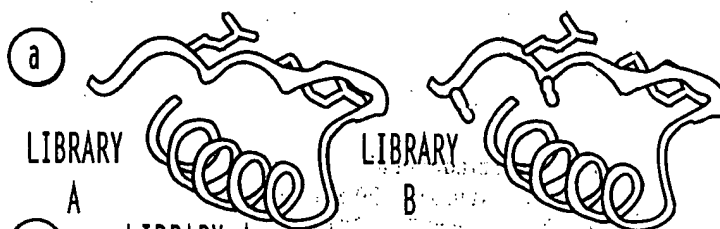
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FIG. 2



PPBR0SR	GPSQPTYPGDDAPVEDLKRFRNTLAAYLSVVRKLQRMKQ	NO BINDING DETECTED
PPBR10SR	GPSQPTYPGDDAPVEDLKRFRNTLAAYLSRLRKAARAAA	
PPBR11SR	GPSQPTYPGDDAPVEDLKRFRNTLAARLSRLRKAARAAA	
PPBR2SR	GPSQPTYPGDDAPVEDLKRFRNTLAARRSRARKLQRMKQ	5 nM
PPBR4SR	GPSQPTYPGDDAPVEDLKRFRNTLAARRSRARKAARAAA	1.5 nM
G ₂₇	DPAALKRAARNTAARRSRARKLQRMQC	400 nM
PPBR4ΔSR	GPSQPTYPGDDAPVEDLKRFRNTLAARRSRRLRKAARAAA	1000 nM

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(b)

LIBRARY A
~~X~~P~~S~~~~X~~T~~X~~P GDDAPVEDLKRF RNTLAARRSRARKAA

LIBRARY B
~~G~~X~~S~~~~X~~T~~X~~P GDDAPVEDLKRF RNTLAARRSRARKAA

PPBR4
 GPSQPTYPGDDAPVEDLKRF RNTLAARRSRARKAA

(c)

PPBR4	G	P	S	Q	P	T	Y	P	G
	G	G	S	R	A	T	C	P	G
	G	G	S	R	A	T	K	P	G
	G	G	S	R	A	T	R	P	G
p007	G	G	S	R	A	T	M	P	G
p012	G	V	S	V	G	T	R	P	G
p011	G	T	S	T	G	T	R	P	G
p013	G	V	S	S	V	T	W	P	G
	G	S	S	V	E	T	Q	P	G
p009	G	P	S	E	G	T	E	P	G
p016	G	R	S	H	Q	T	W	P	G
	G	G	S	E	V	T	A	P	G
	G	Q	S	Q	R	T	G	P	G



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FIG. 4

BakLIB (20-36)	F	V	X	R	L	L	X	Y	I	X	D	X	I	N	R	#	Kd (nM)
4100	F	V	G	R	L	L	R	Y	E	G	D	E	I	N	R	6	401
4101	F	V	G	R	L	L	A	Y	E	G	D	D	I	N	R	2	811
4099	F	V	G	R	L	L	A	Y	E	G	D	T	I	N	R	3	352
4102	F	V	S	R	L	-	R	Y	I	A	D	L	I	N	R	2	3700
	F	V	R	R	L	L	G	Y	I	D	D	I	I	N	R	1	
	F	V	L	R	L	L	W	Y	I	P	D	G	I	N	R	1	
	F	V	R	R	L	L	V	Y	I	W	D	D	I	N	R	1	

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FIG. 5

	PP-helix	turn	α -helix	
	1	8	17 2022 26 29	
aPP	G	SQ TY	GDDAPVEDLIRFYDNLQQYLN	K_d (nM)
p53AD			ETFSDLWKLLP	261
LIBRARY #1	G	SQ TY	GDDAPVEDLIRFXFXLWYLLXX	
			-----LIRFQFTLCWYLLWT	
p3254			-----LIRFQFALRWYLLPM	334
			-----LIRFQFSLSWYLLWG	
p3255			-----LIRFQFGLGWYLLAM	2800
			-----LIRFQFTLRWYLLVT	
p3548			-----LIRFQFPLRWYLLWA	766
			-----LIRFQFWLNWYLLWY	
p3559			-----LIRFKFLLQWYLLAL	99
			-----LIRFRFPLRWYLLAL	
			-----LIRFRFQLGWYLLWF	
			-----LIRFSFALQWYLLTR	
p3527			-----LIRFSFALQWYLLGE	546

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FIG. 6

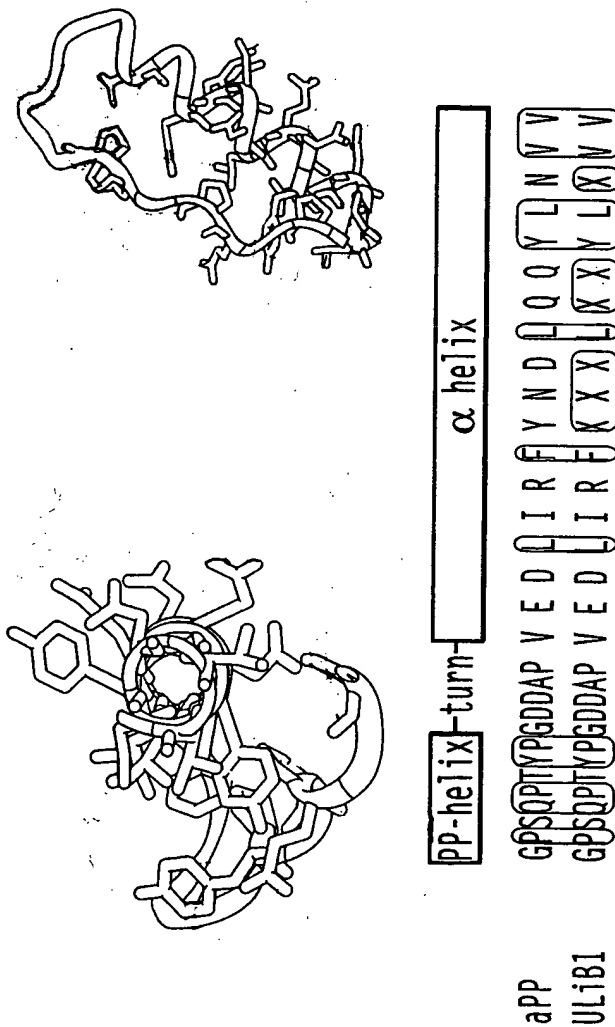
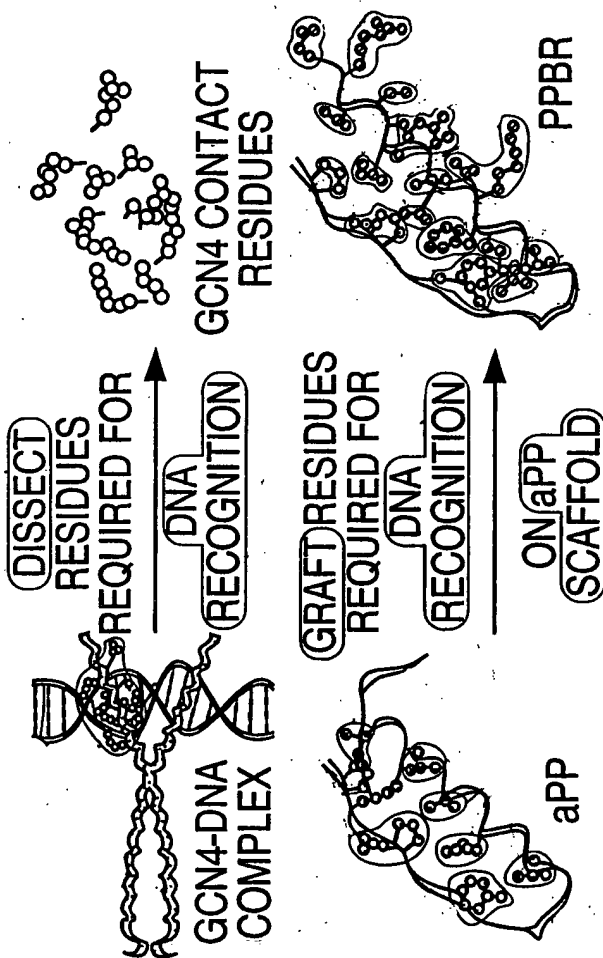


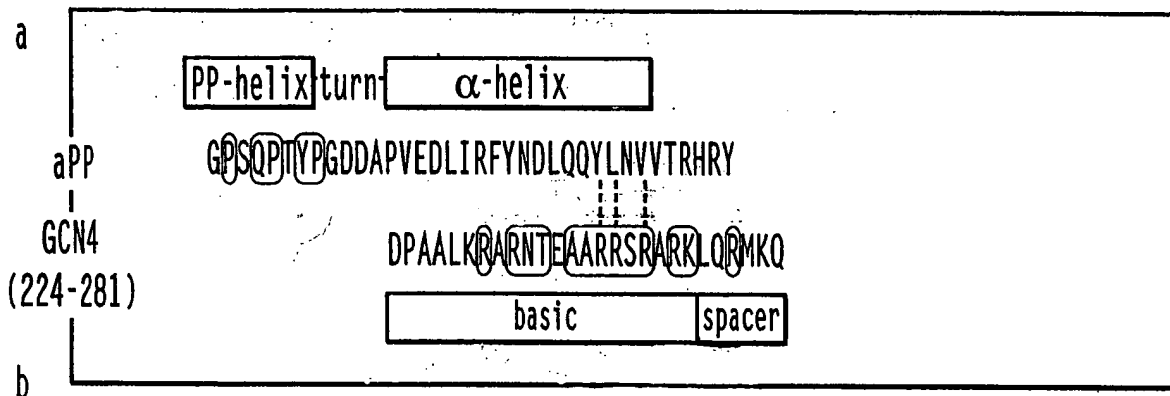
FIG. 1



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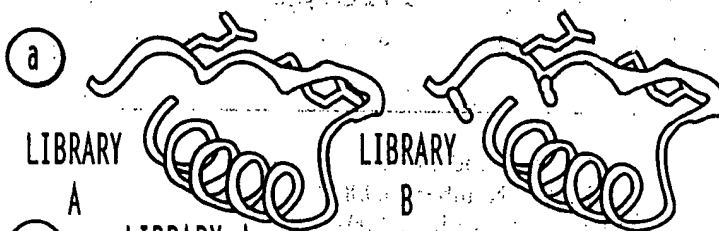
FIG. 2



PPBR0SR	GPSQPTYPGDDAPVEDLKRFRNTLAAYLSVVRKLQRMKQ	NO
PPBR10SR	GPSQPTYPGDDAPVEDLKRFRNTLAAYLSRLRKAARAAA	BINDING
PPBR11SR	GPSQPTYPGDDAPVEDLKRFRNTLAARLSRLRKAARAAA	DETECTED
PPBR2SR	GPSQPTYPGDDAPVEDLKRFRNTLAARRSPARKLQRMKQ	5 nM
PPBR4SR	GPSQPTYPGDDAPVEDLKRFRNTLAARRSPARKAARAAA	1.5 nM
G ₂₇	DPAALKRARNTEAARRSPARKLQRMQC	400 nM
PPBR4 Δ SR	GPSQPTYPGDDAPVEDLKRFRNTLAARRSLRKAARAAA	1000 nM



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FIG. 3



(b) LIBRARY A
~~Q~~PS~~X~~PT~~X~~PGDDAPVEDLKRFRLTAAARRSRARKAA
LIBRARY B
~~Q~~PS~~X~~PT~~X~~PGDDAPVEDLKRFRLTAAARRSRARKAA
PPBR4
GPSQPTYPGDDAPVEDLKRFRLTAAARRSRARKAA

(c)

PPBR4	G	P	S	Q	P	T	Y	P	G
	G	G	S	R	A	T	C	P	G
	G	G	S	R	A	T	K	P	G
	G	G	S	R	A	T	R	P	G
p007	G	G	S	R	A	T	M	P	G
p012	G	V	S	V	G	T	R	P	G
p011	G	T	S	T	G	T	R	P	G
p013	G	V	S	S	V	T	W	P	G
	G	S	S	V	E	T	Q	P	G
p009	G	P	S	E	G	T	E	P	G
p016	G	R	S	H	Q	T	W	P	G
	G	G	S	E	V	T	A	P	G
	G	Q	S	Q	R	T	G	P	G

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FIG. 4

BakLIB (20-36)	F	V	X	R	L	L	X	Y	I	X	D	X	I	N	R	#	Kd (nM)
4100	F	V	G	R	L	L	R	Y	E	G	D	E	I	N	R	6	401
4101	F	V	G	R	L	L	A	Y	E	G	D	D	I	N	R	2	811
4099	F	V	G	R	L	L	A	Y	E	G	D	T	I	N	R	3	352
4102	F	V	S	R	L	-	R	Y	I	A	D	L	I	N	R	2	3700
	F	V	R	R	L	L	G	Y	I	D	D	I	I	N	R	1	
	F	V	L	R	L	L	W	Y	I	P	D	G	I	N	R	1	
	F	V	R	R	L	L	V	Y	I	W	D	D	I	N	R	1	



FIG. 5

	PP-helix	turn	α -helix	
	1	8	17 2022 26 29	
aPP	G	SQ	TY GDDAPVEDLIRFYDNLQQYLN	K_d (nM)
p53AD			ETFSDLWKLLP	261
LIBRARY #1	G	SQ	TY GDDAPVEDLIRFXFLXWYLLXX	
			-----LIRFQFTLCWYLLWT	
p3254			-----LIRFQFALRWYLLPM	334
			-----LIRFQFSLSWYLLWG	
p3255			-----LIRFQFGLGWYLLAM	2800
			-----LIRFQFTLRWYLLVT	
p3548			-----LIRFQFPLRWYLLWA	766
			-----LIRFQFWLNWYLLWY	
p3559			-----LIRFKFLLQWYLLAL	99
			-----LIRFRFPLRWYLLAL	
			-----LIRFRFQLGWYLLWF	
			-----LIRFSFALQWYLLTR	
p3527			-----LIRFSFALQWYLLGE	546

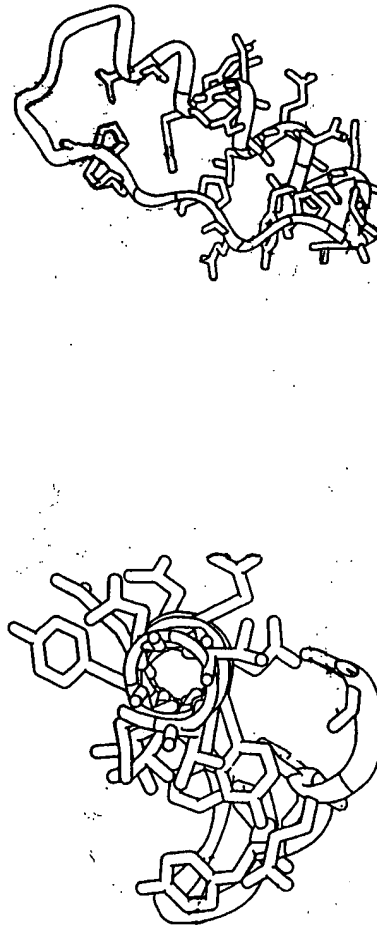
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FIG. 6



	PP-helix-turn-	α helix	
aPP	GPSQPTYPGDDAP	V E D	I R F Y N D L Q Q Y L N V V
UL1B1	GPSQPTYPGDDAP	V E D	I R F K X X L K X X Y L X V V

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